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ABSTRACT OF THE DISCLOSURE

A co-generation system and a dehumidification air-conditioner, which generates electricity and provides highly efficient air-conditioning by reducing the latent heat load of the air-conditioner. Exhaust gas from either a turbine or an internal combustion engine heats air for desorption of adsorbed moisture from a humidity rotor. The humidity rotor has a sound adsorption material to attenuate high frequency noise coming from the exhaust outlet of the cogeneration system.